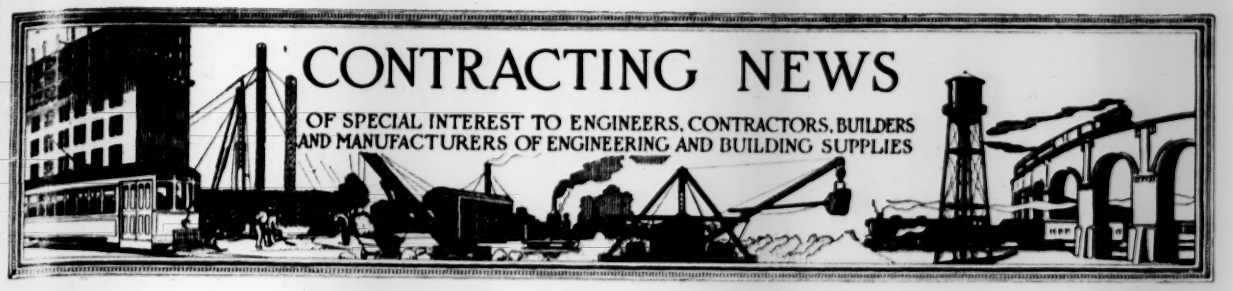
CONTRACTING NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Proposals

For Proposals Advertised See Pages 51 to 56 Inclusive

WATER-WORKS

Bids Close		See Eng. News-Record
Oct. 16.	Caldwell, Kan.	Oct. 4
Oct. 16.	Lockney, Tex.	Oct. 11
Oct. 19.	Akron, O.	Oct. 4
Oct. 16.	Berwyn, Ill. Adv. Oct. 11.	Oct. 11
Oct. 22.	Salem, N. J. Adv. Oct. 11.	Oct. 11
Oct. 29.	Portland, Ore.	Oct. 11

SEWERS

Oct. 14.	Pleasantville, N. J.	Sept. 27
Oct. 16.	Wabash, Minn.	Sept. 27
Oct. 16.	Bayonne, N. J.	Oct. 11
Oct. 16.	Berwyn, Ill. Adv. Oct. 11.	Oct. 11
Oct. 16.	Toronto, Ont.	Oct. 11
Oct. 16.	Wellsburg, W. Va.	Oct. 11
Oct. 17.	Brooklyn, N. Y.	Oct. 11
Oct. 17.	Grosse Point, Ill. Adv. Oct. 4.	Oct. 4
Oct. 18.	Santa Barbara, Cal.	Oct. 4
Oct. 18.	Pocatello, Idaho	Oct. 11
Oct. 18.	Baxter Springs, Kan.	Oct. 11
Oct. 25.	St. Joseph, Mich. Adv. Oct. 4.	Oct. 4

BRIDGES

Oct. 15.	Tallahassee, Fla.	Oct. 4
Oct. 15.	California	Oct. 4
Oct. 16.	Ames, Ia.	Oct. 11
Oct. 16.	Tampa, Fla.	Oct. 4
Oct. 16.	Glenville, W. Va.	Sept. 27
Oct. 16.	West Palm Beach, Fla.	Oct. 11
Oct. 16.	Baltimore, Md. Adv. Oct. 11.	Oct. 11
Oct. 17.	Butler, Pa. Adv. Oct. 4.	Oct. 4
Oct. 20.	Pennsylvania	Sept. 20
Oct. 20.	Charleston, W. Va.	Sept. 27
Oct. 20.	Big Chimney, W. Va.	Oct. 11
Oct. 23.	Fort Dodge, Ia. Adv. Sept. 27 and Oct. 4.	Sept. 27
Nov. 6.	Dallas, Tex. Adv. Oct. 11.	Oct. 11

STREETS AND ROADS

Oct. 13.	Wayne, W. Va.	Oct. 11
Oct. 15.	Newark, N. J.	Sept. 13
Oct. 15.	East St. Louis, Ill.	Oct. 11
Oct. 16.	Cape May, N. J.	Sept. 6
Oct. 16.	Pennsylvania	Sept. 20
Oct. 16.	Billings, Mont.	Oct. 4
Oct. 16.	Johnson, Tenn.	Oct. 4
Oct. 16.	Berwyn, Ill. Adv. Oct. 11.	Oct. 11
Oct. 16.	South Orange, N. J.	Oct. 11
Oct. 17.	San Diego, Cal.	Oct. 11
Oct. 17.	Cornwall, Ont.	Oct. 11
Oct. 18.	Jersey City, N. J.	Oct. 11
Oct. 20.	Bonners Ferry, Idaho	Oct. 11
Oct. 20.	Bryan, O.	Oct. 11
Oct. 22.	Clarendon, Ark.	Oct. 4
Oct. 22.	Conway, Ark.	Oct. 11
Oct. 22.	Washington	Oct. 11
Oct. 22.	Ephrata, Wash.	Oct. 11
Oct. 23.	Jersey City, N. J.	Oct. 11
Oct. 24.	Paterson, N. J.	Sept. 27
Oct. 24.	Santa Barbara, Cal.	Oct. 4
Oct. 26.	Indiana	Oct. 11
Oct. 27.	Indiana	Oct. 11
Oct. 29.	Indiana	Oct. 11
Nov. 5.	Pikeville, Ky.	Sept. 27
Nov. 6.	Indiana	Oct. 11
Nov. 6.	Morgantown, W. Va. Adv. Oct. 11.	Oct. 11

EXCAVATION AND DREDGING

Oct 13.	Sioux Falls, S. D.	Oct. 11
Oct. 15.	Willmar, Minn.	Sept. 13
Oct. 15.	Havana, Ill.	Oct. 4
Oct. 16.	St. Peter, Minn.	Oct. 4
Oct. 19.	Mankato, Minn.	Oct. 4
Oct. 20.	Waterford, Cal.	Sept. 27
Oct. 22.	Elbow Lake, Minn.	Oct. 4
Oct. 22.	Rockport, Ind.	Oct. 4
Oct. 23.	Athens, Ga.	Oct. 11
Oct. 24.	Lesueur Center, Minn.	Oct. 4
Nov. 2.	Albany, N. Y. Adv. Oct. 11.	Oct. 11
Nov. 2.	Sibley, Ia.	Oct. 11
Nov. 9.	St. Cloud, Minn.	Sept. 27

BUILDINGS

Oct. 15.	New York, N. Y.	Sept. 27
Oct. 15.	Beaumont, Tex.	Oct. 4
Oct. 17.	Wichita, Kan.	Oct. 4
Oct. 18.	Red Bank, N. J.	Oct. 4
Oct. 20.	Oxford, O.	Sept. 27
Oct. 23.	Ft. Wayne, Ind.	Oct. 4
Oct. 23.	Smith Center, Kan.	Oct. 4
Oct. 23.	New York, N. Y.	Oct. 11
Oct. 24.	Abilene, Kan.	Oct. 4
Nov. 25.	Middletown, Mass.	Oct. 4
Oct. 28.	Healdsburg, Cal.	Oct. 11
Oct. 28.	Denver, Colo.	Oct. 11
Dec. 1.	Norfolk, Va.	Sept. 13

FEDERAL GOVERNMENT WORK

Oct. 15.	Wharf and Trestle — Charleston, S. C.	Oct. 11
Oct. 15.	Laboratory—Indiana Head, Md.	Oct. 11
Oct. 15.	Garbage Incinerator—Mare Island, Vallejo, P. O., Cal.	Oct. 11
Oct. 15.	Piers and Quarry Walls —New London, Conn.	Oct. 11
Oct. 15.	Hospital—Chelsea, Mass.	Oct. 11
Oct. 15.	Shore Bulkheads — Hoboken, N. J.	Oct. 11
Oct. 15.	Radio Towers—El Cayey, P. R.	Oct. 11
Oct. 15.	Building—Tiburon, Cal.	Oct. 11
Oct. 15.	Movable Crest, Service Bridge, Hoist Cars — Denver, Colo. Adv. Sept. 13.	Sept. 13
Oct. 15.	Post Office — Waynesboro, Va.	Sept. 13
Oct. 15.	Laterals—El Paso, Tex. Adv. Sept. 20.	Sept. 20
Oct. 15.	Foundry, etc. — Philadelphia, Pa.	Sept. 27
Oct. 15.	Excavators—Denver, Colo.	Sept. 27
Oct. 15.	Mine Storage Bldg. — Ft. Mifflin, Pa.	Oct. 4
Oct. 15.	Construction Materials — Detroit, Mich. Adv. Oct. 4.	Oct. 4
Oct. 20.	Experimental Sheet Rolling Mill — Washington, D. C.	Oct. 11
Oct. 20.	Tank and Towers — Key West, Fla.	Oct. 11
Oct. 22.	Power House and Machine Shop — New London, Conn.	Oct. 11
Oct. 22.	Heating System—Philadelphia, Pa.	Oct. 11
Oct. 23.	Post Office — Andalusia, Ala.	Sept. 20
Oct. 24.	Post Office — Bakersfield, Cal. Adv. Sept. 20 and 27.	Sept. 20
Oct. 26.	Post Office — Mt. Carmel, Ill.	Sept. 20
Oct. 28.	Post Office — Waterloo, N. Y.	Sept. 20
Oct. 29.	Buildings—El Cayey, P. R.	Oct. 11
Oct. 29.	Buildings—Grand Isle, La. Adv. Oct. 11.	Oct. 11
Oct. 30.	Metal Work, etc. — Key West, Fla. Adv. Sept. 6 and 13.	Sept. 6
Oct. 30.	Post Office—Farmville, Va.	Sept. 27
Oct. 31.	Power House — Brooklyn, N. Y.	Oct. 4
Oct. 31.	Post Office—Hollidaysburg, Pa. Adv. Oct. 4.	Oct. 4
Nov. 1.	Lookout—Omaha, Neb. Adv. Oct. 11.	Oct. 11
Nov. 1.	Post Office—Kenton, O.	Sept. 27
Nov. 1.	Construction Materials — Detroit, Mich. Adv. Oct. 4.	Oct. 4
Nov. 2.	Maneuver Boats and Post Office—Cincinnati, O. Adv. Oct. 4.	Oct. 4
Nov. 2.	Post Office — Valparaiso, Ind.	Oct. 4
Nov. 3.	Post Office — Burlington, N. C.	Oct. 4
Nov. 8.	Piers, etc.—Detroit, Mich. Adv. Oct. 11.	Oct. 11
Nov. 9.	Post Office—Forsyth, Ga.	Oct. 11
Nov. 13.	Post Office—Harrisonville, Mo.	Oct. 11
Nov. 14.	Post Office—Austin, Tex.	Oct. 11
Nov. 28.	Post Office — Bellefourche, S. D.	Oct. 11

MISCELLANEOUS

Oct. 17.	Elimination Grade Crossing—Philadelphia, Pa.	Oct. 11
Oct. 17.	Dike—Bernalillo, N. M.	Oct. 4
Oct. 17.	Pier—Manhattan Beach, Cal. Adv. Oct. 4 and 11.	Oct. 4
Oct. 23.	Pier—New York, N. Y. Adv. Sept. 27 to Oct. 11.	Sept. 27
Nov. 15.	Flood Control—Dayton, O. Adv. Sept. 13 to 27.	Sept. 13

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

WATER-WORKS

Proposed Work

N. J., Ventnor—City plans to build reservoir. About $25,000. Address I. B. Sweigart.

Water-Works (Continued)

N. J., Wharton—Boro. election in November to vote on $410,000 bond issue to install water-works system.

Pa., Bristol—See "Sewers."

Va., Riverside—City plans water-works system in North Riverside and Riverside Park. About $40,000.

Ga., Murray—City issued $20,000 bonds to install water-works and electric-light and power plant.

Miss., Charleston—City having plans prepared by X. A. Kramer, engr., Magnolia, for water-works system. About $13,500 available for work. Noted Sept. 13.

O., Cincinnati—See "Streets and Roads."

O., Cleveland—City rejected bids dismantling and re-erecting building 30,000,000-gal. De Laval centrifugal pump, auxiliaries, etc., and building structural steel platform around same, at Division Ave. pumping station, as they were too high. Noted Aug. 23.

O., Columbus—City plans to issue $10,000 bonds to improve and enlarge water mains. H. Maetzel, city engr.

O., East Youngstown—Town to sell $45,000 bonds Oct. 22 to build water-works system. Noted June 7.

O., Greenville—(Official)—City will not improve water-works this year as no bids were received for sale of $60,000 bonds. Noted Sept. 13.

Mich., Lakeview — City voted $11,500 bonds to build water-works system. L. R. Stebbins, supt.

Wis., Tomahawk — (Official) — City rejected bids to build and equip pumping station and install water mains. Noted Sept. 13.

Ia., Lohrville—(Official)—City defeated $10,000 bond election for water-works system. Noted Sept. 27.

Kan., Attica—City having plans prepared by W. B. Rollins & Co., engrs., 209 Ry. Ex. Bldg., Kansas City, Mo., for water-works system. About $12,000.

Kan., Liberal—City to issue $26,000 bonds to improve water-works system; plans include 1 well and pump, 1 concrete surface reservoir, 1 centrifugal pump for fire system, and extending and repairing distributing systems. J. Karau, clk.

Kan., McCracken—City election Oct. 23 to vote on $12,000 bond issue to build water-works system. L. L. Ryan, clk.

Mo., Galena—City having plans prepared by Burns & McDonnell, engrs., 400 Inter-State Bldg., Kansas City, for water-works system; $100,000 bonds recently voted for project. Noted Sept. 20.

Mo., Joplin—City voted $100,000 bonds to build water-works system. J. J. McAfee, city engr. Noted Sept. 27.

Mo., Kansas City—City plans to improve Turkey Creek pumping station. C. Hill, city engr.

Okla., Guthrie—City voted $32,000 bonds to extend water-works and sewerage systems. Noted Sept. 13.

Okla., Hartshorne—City election soon to vote on $17,500 bond issue to build filtration plant.

Okla., Henryetta—City election Oct. 25 to vote on $128,000 bond issue to extend water-works system. H. M. La Wue, supt.

Okla., McAlester—(Official)—City having plans prepared for water-works system. A. H. Kendrick, city engr. Noted Sept. 27.

Okla., Ponca City—City election soon to vote on $20 000 bond issue for water-works and sewerage systems. G. G. O'Neill, supt.

Okla., Shawnee—City plans to improve water-works. E. L. Moore, city engr.

Okla., Wapanucka—City voted $14,000 bonds to build water-works system. Noted Oct. 4.

Wash., Bremerton — City voted $80,000 bonds to extend and improve water-works system. Noted Aug. 30.

Cal., Oakdale—Sierra & San Francisco Power Co. plans to construct reservoirs, ditches and storage dams. About $5,000,000. H. F. Jackson, genl. mgr.

Cal., Santa Barbara—City sold $90,000 bonds to improve water-works system. A. B. Cook, city engr.

BIDS DESIRED

N. J., Salem—(Official)—Until Oct. 22, by W. R. Dunn, recdr., for installing 1,500,000 gal. electrically driven centrifugal pump; advertised in this issue.

Ill., Berwyn—(Official)—Until Oct. 16 by J. M. Humiston, secy. bd. local impvts., for water-supply pipes, lead water-service pipes, etc., in Wenonah, Clinton, Home, Harvey, Lombard, Wisconsin and Elliott Aves., advertised in this issue.

Tex., Lockney—(Official)—Until Oct. 16, by City, for water-works system, including 9200 ft. 6-, 8-in. c.i. pipe, 2½ tons specials, 75,000 gal. tank and tower, etc. H. E. Elrod, Interurban Bldg., Dallas, engr. Noted Oct. 4.

Ore., Portland—Until Oct. 29, by City, for 2 multi-stage turbine pumps, 1,000,000-gal. capacity, and other pumping equipment for water-works. D. Kellaher, purch. agt. P. H. Dater, city engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract laying water pipes, Commercial Causeway and Washington St., to J. T. Shea, Jr., 696 East 6th St., $13,302.

★**Conn., Morris**—City of Waterbury let contract completing diversion tunnel at Wigwam Creek reservoir here to Gray & Ireland, 17 Battery Pl., New York City, $41,000.

★**Minn., Remer**—City let contract water-works system to Badger Constr. Co., 2844 Irving Ave., S, Minneapolis, $17,800. Noted May 31.

★**S. D., McLaughlin** — City let contract water-works system to Badger Constr. Co., 2844 Irving Ave., S., Minneapolis, Minn., $25,999.

Cal., Santa Barbara—City received low bid building storage reservoir back of Mission Hill, involving 33,980 cu.yd. excav. and fill on main dam; 5068 cu.yd. excav. and fill in embankment; 16,000 lin.ft. outlet pipe line; inlet and outlet appurtenances, etc., from A. L. Pendola, 1332 Garden St. Noted Aug. 2.

SEWERS

Proposed Work

N. Y., Buffalo—City plans trunk sewers in various districts. About $400,000. G. H. Norton, city engr.

N. Y., Rochester—See "Streets and Roads."

N. J., Newark—(Official)—City rejected bids sewer in Sandford Ave., 500 ft. 30-in. concrete pipe sewer, 240 ft. vitr. salt glazed pipe sewer, 12 catch basins and 5 manholes. Noted Sept. 20.

N. J., Passaic—City plans extending sanitary sewers and building storm water sewers in 1st Ward Park (Dundee Island), also sanitary sewers in Federal St. C. P. Wise, city engr.

Pa., Bristol—City plans to build additions to sewerage system; also enlarge water-works, including pumping plant. W. H. Boardman, city engr.

Pa., Scranton—Council passed ordinance to build sewerage system in 21st Ward. W. Schunk, city engr.

Va., Riverside—City plans sanitary sewerage system, main sewer to be 2 mi. long, in North Riverside and Riverside Park. About $15,000.

W. Va., Princeton—City plans election to vote on $50,000 bond issue to extend sewerage system.

Tenn., Nashville—(Official)—City voted $1,000,000 bonds to build sewerage system. Noted Aug. 16.

O., Rocky River—Village soon lets contract sewage disposal plant and sewers. E. H. Arnold, village engr.

Ia., Waterloo—City soon lets contract for extension to sewer through Lincoln Park addition. C. A. Roby, city engr.

Minn., Kinney—Village plans election to vote on $20,000 bond issue to build sewers. R. McNair, village engr.

Minn., St. Paul — City plans to install sewer in portion Ocean St. About $27,74. O. Claussen, city engr.

Minn., St. Paul—(Official)—City rejected bids for storm water sewer on Fairview, Summit, Macalester and Pascal Aves. Noted Oct. 11.

Mo., Clayton—St. Louis Co. plans to build sewerage system to extend from eastern edge of Kirkwood to Lindenwood, 5 mi. long. About $1,000,000.

Okla., Henryetta—City election Oct. 25th to vote on $32,000 bond issue for storm-water sewers. W. H. Sullins, city clk.

Okla., Ponca City—See "Water-Works."

Wash., Lind—City had plans prepared by Sawyer Bros., engrs., White Bldg., Seattle, sewerage system, including 21,300 ft. 6- 12-in. pipe. About $30,000.

Ont., Colchester South—City plans to construct storm drains. About $10,000. J. H. Madill, clk.

Ont., London—City lets contract about Oct. 20 for new vitr. tile sewers. About $25,000. H. Brazier, city engr.

B. C., Esquilmalt—City had plans prepared by E. F. Bourne, engr., for surface drain from Skinner's flats to sea, including 30-36-in. pipe.

BIDS DESIRED

N. Y., Brooklyn—Until Oct. 17, by L. H. Pounds, boro. pres., building sewers and sewage-pumping station in Flatlands Ave.

N. J., Bayonne—Until Oct. 16, by City, building sewers and appurtenances in portions East 23rd and East 24th Sts. W. L. Clarkson, city engr.

W. Va., Wellsburg—Until Oct. 16, by Street Comn., for lateral sewers in 3rd and 4th wards. M. E. Boyd, city engr. Noted May 3.

Ill., Berwyn—(Official)—Until Oct. 16 by J. M. Humiston, secy. bd. local impvts., for vitr. tile pipe sewers, etc., in Home, Wenonah, Clinton, Harvey and Wisconsin Aves. and West 27th St.; advertised in this issue.

Ia., Ames—Until Oct. 15, by City, for storm sewers, including about 7300 ft. 10- to 15-in. pipe, 13 manholes and 47 catch basins. A. B. Maxwell, city clk.

Kan., Baxter Springs—(Official)—Until Oct. 18, by O. M. Spratt, city clk., for sewerage system, including 82,618 ft. 8- 15-in. vitr. sewer pipe, 302 8- 16-in. c.-i. pipe, together with manholes, etc. A. C. Moore, Frisco Bldg., Joplin, Mo., engr. Noted July 26.

Idaho, Pocatello—Until Oct. 18, by A. R. Dawson, city clk., for 10,000 ft. 9-in. sewers in Dist. No. 12. About $25,290. J. H. Giles, city engr. Noted July 12.

Ont., Toronto—Until Oct. 16, by T. L. Church, chn. bd. control, building Moore Park sewer drainage system. Eastern and Western sections, outlet via Glen Rd., from Park Dr. to Summerhill Ave.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Thiells—F. A. Vanderlip, pres. bd. mgrs., Letchworth Village, received low bid sanitary underground sewer, Attendants' Home and Service Bldg., from R. T. Ford Co., 206 South Ave., Rochester, $29,484.

N. J., Trenton—City received low bid 927 ft. 60-in. concrete sewer and 3 15-in. slants, 80 ft. 15-in. pipe, 4 concrete inlets and 2 manholes and 1 concrete portal wall, from De Lucia & Gibbs, South Clinton Ave., $14,224.

★**Pa., Scranton**—City let contract, 800 lin.ft. 36-in. brick sewer and 21,050 lin.ft. 30-in. vitr. pipe sewer to M. Stipp & Sons, 435 Moir St.

★**W. Va., Huntington** — (Official) — City let contract sewers portions Richmond St. to J. Ullom, Huntington, $23,496. Noted Sept. 27.

★**N. C., Durham** — (Official) — City let contract sewerage system to Blankenship & McClelland, Charlotte, $10,442.

★**O., Cleveland**—City let contract Sect. No. 4 south intercepting sewer to Connelly Constr. Co., 437 Arcade, $163,325. Noted Aug. 16.

Sewers (Continued)

★O., **Cleveland**—(Warrensville P. O.)—Village let contract Sects. Nos. 1 and 2 of Taylor-Caledonia Sewer Dist. No. 5, to George Bros., 1148 Boliver Rd., $29,107, and $44,728 respectively; Sect. No. 3, to Curo Bros., 1977 East 126th St., $46,687. Both contractors of Cleveland. Noted Aug. 30.

★O., **Youngston**—City let contract sewer in Albert St. to C. Harris. About $75,000. Noted June 28.

Mich., **Detroit** — City received low bid for Sects. Nos. 1, 2 and 3, Lynch Rd. sewer, from J. A. Mercier, 216 Hammond Bldg., $1,095,720. Noted Sept. 13.

Minn., **St. Paul**—City received low bid storm sewer in Fairview St. from O'Neill & Preston, 60 East 6th St., $87,400. Noted Sept. 20.

★Neb., **Oakland**—(Official)—City let contract sewerage system to Katz Constr. Co., 638 Brandeis Bldg., Omaha, $31,118. Noted Sept. 13.

★Tex., **Nacogoches** — City let contract sewerage system and disposal plant to Winslett Eldridge Co., 1001 Main St., Dallas, $40,000. Noted Sept. 27.

BRIDGES

Proposed Work

Mass., **Braintree** — Town having plans prepared by H. L. White, engr., Farquhar St., for bridge over Monatiquo River. About $100,000.

N. J., **Mount Holly**—Bd. Freeholders Burlington Co. plan to rebuild and strengthen bridges leading to Camp Dix, Wrightstown. About $10,000. J. Logan, co. engr.

N. J., **Newark**—See "Buildings."

Pa., **Du Bois** — (Official) — City rejected bids building bridge over Sandy Lick Creek, on Brady St. About $15,000. G. A. Flink, 301-3 Commonwealth Trust Bldg., Harrisburg, engr. Noted Sept. 6.

Pa., **Mauch Chunk**—Carbon Co. plans to build new bridge over Aquashicola Creek, at Little Gap.

Pa., **Pottstown**—Montgomery Co., Norristown, and Chester Co., West Chester, plans to repair Hanover St. bridge over Schuylkill River. About $32,000.

O., **Akron** — (Official) — Summit Co. received no bids for North Hill viaduct, rein.-con., 2790 ft. long. M. Rebel, clk. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs. Noted Sept. 13.

Wis., **Clintonville**—City soon lets contract building 60-ft. rein.-con. bridge, 34-ft. roadway, over Pidgeon River. About $10,000. J. Spearbraker, clk.

Neb., **Westpoint**—Cuming Co. receiving bids about Oct. 20 for 240-ft. bridge over Elk Horn River. G. E. Johnson, Lincoln, state bridge engr.

Que., **Shawenegan Falls**—Council soon lets contract for rein.-con. bridge between Shawenegan Falls and Ste. Flore. R. Rinfret, city engr.

Sask., **Ft. Qu'Apelle**—Provincial Government, plans to build rein.-con. bridge over river joining Echo and Katepwe Lakes, here.

BIDS DESIRED

Md., **Baltimore**—Until Oct. 16, by State Rds. Comn., 601 Garrett Bldg., rebuilding 1 slab bridge on State Rd. near Bacon Hill, Cecil Co. F. H. Zouck, chn.; advertised in this issue.

W. Va., **Big Chimney**—Until Oct. 20, by Comrs. Kanawha Co., Charleston, building steel highway bridge over Elk River, near Big Chimney. F. D. Burdette, Charleston, co. rd. engr.

Fla., **West Palm Beach**—(Official)—Until Oct. 16, (extension of date) by Palm Beach Co. Comrs. building 2 60-ft. Scherzer rolling lift steel bridges over F. E. C. Canal at Delfray and Boynton. R. F. Goodman, co. engr. Noted Sept. 20.

Ill., **East St. Louis** — See "Streets and Roads."

Tex., **Dallas**—(Official)—Until Nov. 6, by Dallas Southwestern Traction Co., building steel bridge, concrete approaches; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., **Thiells**—F. A. Vanderlip, pres. bd. mgrs., Letchworth Village, received low bid building bridge over creek from P. Keeler Bldg. Co., Loudonville St., Albany, $13,797.

★Va., **Richmond**—State Highway Comn. let contract building new 80-ft. steel bridge over south fork Roanoke River, Montgomery Co., to Roanoke Iron & Bridge Co., Roanoke.

★Ga., **Woodbine**—(Official)—Camden Co. Comrs., St. Marys, let contract building steel bridge over Satilla River to Austin Bros., Greenwood Ave., Atlanta, $17,800, with substitute of Scherzer rolling lift bridge for trunnion bridge. Noted Sept. 20.

★Fla., **Bradentown** — City let contract building bridge over Manatee River, between Bradentown and Palmetto, to E. W. Parker, 402 Curry Bldg., Tampa, $57,000. Noted Aug. 16.

★O., **Columbus**—Bd. Comrs. Franklin Co. let contract building bridge over Scioto River, to Hickey & Co., Ry. Ex. Bldg., St. Louis, Mo., $584,905.

★Kan., **Mankato** — (Official)—Jewell Co. let contract building 19 bridges to Central Bridge Co., Mankato, $15,985. Noted Sept. 20.

★N. M., **Las Vegas**—San Miguel Co. let contract building 4 bridges to Missouri Valley Bridge Co., Sante Fe, N. M., $56,353.

Cal., **Los Angeles**—Los Angeles Co. received low bid building bridge over San Gabriel River, Anaheim-Telegraph Rd., and timber bridge over Rio Hondo Valley Blvd., from W. Ledbetter, 651 Pacific-Electric Bldg., $49,942 and $44,937 respectively. Noted Sept. 13.

★Cal., **Stockton** — See "Excavation and Dredging."

STRUCTURAL STEEL WORK

Proposed Work

N. J., **Newark**—See "Buildings."

BIDS DESIRED

W. Va., **Big Chimney**—See "Bridges."

Fla., **West Palm Beach**—See "Bridges."

Tex., **Dallas**—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., **Boston**—See "Industrial Works."

★Va., **Richmond**—See "Bridges."

★Ga., **Woodbine**—See "Bridges."

REINFORCED CONCRETE

Proposed Work

Conn., **Middletown**—See "Industrial Works."

Wash., **D. C.**—See "Federal Government."

O., **Akron**—See "Bridges."

Mich., **Detroit**—See "Buildings."

Wis., **Clintonville**—See "Bridges."

Que., **Shawenegan Falls**—See "Bridges."

Sask., **Ft. Qu'Apelle**—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★N. Y., **Buffalo**—See "Industrial Works."

★Ky., **Louisville**—See "Industrial Works."

STREETS AND ROADS

Proposed Work

N. Y., **Buffalo**—City Council plans to pave Breckenridge St., sandstone on concrete base. G. H. Norton, city mgr.

N. Y., **Rochester**—City plans to pave Ringle St. and Arnett Blvd.; also grade, build sidewalks, and install sewers in Grand Ave.; about $64,200 and $28,000 respectively. F. T. Elwood, city engr.

N. J., **Jersey City**—City Comrs. plan to improve Stevens Ave. About $20,000. J. A. Van Kuren, city engr.

N. J., **North Bergen**—(Weehawken P. O.)—Town plans to repave and improve Courtlandt St., from Hudson Co. Blvd. to Grand Ave. About $15,000.

N. J., **West Orange**—Council plans paving portion Valley Rd., grouted granite block on concrete. About $60,000. C. Winston, city engr.

Pa., **New Brighton**—Boro. plans to grade, curb and pave portions 4th and 6th Aves., and 12th St. H. T. Barber, city engr.

Pa., **Paxtang**—Boro. Council plans to pave Derry St. Pike with State aid.

Va., **New Kent**—New Kent Co. Comrs. plan $50,000 bond issue to improve automobile highway provided Federal Government will appropriate like amount.

Va., **Petersburg** — City and Prince George Co., Prince George, plans widening concrete road between Petersburg and Camp Lee County to appropriate $20,000 toward cost and city $10,000.

W. Va., **Elm Grove**—City voted $51,000 bond issue to pave all streets.

S. C., **Columbia** — City plans to issue $320,000 bonds for street improvements, parks, city market and abbatoir. L. A. Griffith, mayor.

Ga., **Atlanta**—Fulton Co. Comrs. plan to resurface Peachtree Rd. from city limits to Bulkhead, 2½ mi., asphaltic concrete. About $75,000.

Florida—State Highway Comn., Tallahassee, having surveys made for completing paving of National Highway through Hamilton and Columbia Cos.

Fla., **Kissimmee**—Osceola Co. sold $100,000 bonds to build road from Kissimmee to Loughman Dist. 2. Noted July 12.

Ala., **Russellville** — Franklin Co. made surveys for Jackson Highway. About $20,000.

La., **East Baton Rouge**—(Baton Rouge P. O.)—City will sell $50,000 bonds for improving and repairing roads. F. A. Woods, secy., police jury.

La., **Point a la Hache**—Plaquemines Co. plans to repair shell road from here to St. Bernard parish line. About $24,000. State Highway Dept., New Orleans, to pay half of cost of work.

Tenn., **Chattanooga**—Hamilton Co. plans repairing and rebuilding entire La Fayette Rd. from Rossville to Georgia Monument.

Tenn., **Dyersburg**—Dyer Co. court plans building 24-mi. Jefferson Davis Highway. About $250,000. State and Federal Government to contribute towards cost.

O., **Cincinnati** — City to sell $140,000 bonds Oct. 15 to improve portion Madison Rd., wood block; paving gutters, brick, and balance roadway with bitulithic, setting granite curbs and constructing necessary addition to water mains. Noted Sept. 13.

O., **Cincinnati**—City plans improving and paving Chickering, 28th, Race, Watelly, Walworth and Tweed Sts. F. Krug, city engr.

O., **Lima**—City plans to improve portion High St., cost $15,500; Linden St., $8000; Ontario Ave., $7000; Walnut Alley, $4000; Hickory and Court alleys, $5500. C. Bryson, city engr.

Ind., **Ft. Wayne** — (Official) — Allen Co. sold $19,200 bonds for highway improvements. Noted Sept. 27.

Ind., **Indianapolis**—Marion Co. will sell $38,500 bonds for road improvements. E. G. Sourbier, co. treas.

Ind., **Indianapolis**—City plans to improve and pave portions Maple, Meridian, Temple and Illinois Sts., and 2 alleys. B. J. T. Jeup, city engr.

Mich., **Benton Harbor**—City plans to pave portion Colfax Ave. M. L. Jones, city engr.

Mich., **Charlevoix**—Charlevoix Co. plans to issue $300,000 bonds to improve roads.

Ill., **Chicago**—Cooke Co. election in November to vote on $1,000,000 bond issue to improve 80 mi. of roads.

Ill., **Freeport**—Stephenson Co. plans State Aid Highway, brick, with 10-ft. roadway and 4-ft. gravel shoulder. About $23,442. M. H. Butterfield, co. surv.

Ill., **Pekin**—City plans to extend Court St. paving to East Bluff, monolithic. B. F. Smith, city engr.

Ill., **Rockford**—Winnebago Co. election Oct. 30 to vote on $145,000 bond issue to build road from city limits to Boone Co. line, via Charles St. Rd. and Cherry Valley.

Ill., **Woodstock**—McHenry Co. plans to improve road from Woodstock toward Marengo, also Harvard-Alden Rd. in Harvard Twp.. About $23,972.

Minn., **St. Paul**—City plans paving portion Pascal Ave., brick. About $18,640. O. Claussen, city engr.

Kan., **Kansas City**—Wyandotte Co. had plans prepared for repaving main thoroughfares. About $23,000. O. K. Williamson, co. engr.

Kan., **Wichita**—Council passed ordinance paving portions Indianola, Lawrence, Estelle and Loraine Aves., Gilbert, Kellog, Market and English Sts., also alleys between Topeka and Emporia Aves. A. Brockway, city engr.

Streets and Roads (Continued)

Mont., White Sulphur Springs—Montana Good Roads Assn. plans to build 408-mi. "Y-G Bee Line Railway" between Yellowstone and Glacier National Park. Scott Leavitt, Great Falls, pres.

Mo., Centerville — Reynolds Co. plans $100,000 bond issue for building and improving roads.

Mo., Charleston—Mississippi Co. having plans prepared for system of gravel roads. Bonds for $375,000 sold for work. Noted Aug. 9.

Mo., Doniphan—(Official)—Ripley Co. at election Oct. 2 defeated $200,000 bond issue for improving roads. Noted Aug. 30.

Ark., Conway—(Official)—City receiving bids about Feb. 1, paving Dist. No. 8. B. G. Wilson, engr.

Texas—State Highway Dept., Austin, making preliminary surveys for roads through Cameron, Hildalgo, Brooks, Kleberg and Neuces Cos. Federal Government appropriated $800,000 for work in Texas. M. C. Welborn, div. engr.

Tex., Corsicana—Navarro Co. voted $80,000 bonds for roads in Rice Precinct, Dist. No. 12. Noted Sept. 6.

Tex., Georgetown—Williamson Co. plans paving portion Meridian Highway from Travis Co. line to Bell Co. line, bituminous macadam; with State and Federal aid. About $115,000.

Tex., Gilmer—Upshur Co. voted $25,000 bond issue for building roads.

Tex., Longview—State Highway Comn., Austin, apportioned $15,000 of Federal Government appropriation to build roads in Gregg Co.

Tex., Post—Garza Co. voted $65,000 bonds to build roads.

Tex., Sweetwater—Nolan Co. plans to improve and complete Ft. Worth-El Paso and Canadian and Del Rio Highways. About $132,179. County to appropriate $97,650 toward cost, Federal Government, $27,080; State, $7449.

Okla., Miami—City plans election Nov. 20 to vote on $350,000 bond issue for road work. Noted June 28.

Okla., Oklahoma—City soon receives bids paving portion Shields Blvd. G. V. McClure, city engr.

Okla., Ponca City—City plans paving 34 blocks, brick. C. B. Ha..old, clk.

Idaho—(Official)—State Highway Dept., Boise, lets contract in April, 12-mi. state highway, through Grangeville Highway Dist. About $35,000. A. H. Wetherbee, secy.

Idaho, Twin Falls—City Council soon receives bids paving alleys in L. I. D. No. 29. About $14,000. J. A. Bybee, city engr.

Wash., Davenport—Lincoln Co. Comrs. plan to spend about $65,000 to build roads.

Wash., Seattle—City had plans prepared paving Marion Ave., involving 524,000 cu. yd.; armored concrete curb, 95,000 ft.; asphalt paving 5-in. concrete base, 42,000 sq. yd.; 6-in. concrete base, 14,000 sq.yd.; asphalt top, 1900 sq.yd.; concrete paving, 6-in. base, 28,000 sq.yd.; brick block paving, 5-in. concrete base, 66,000 sq.yd.; 7-in. concrete base, 24,000 sq.yd. A. H. Dimock, city engr.

Wash., Waterville—Douglas Co. will soon receive bids building Permanent Highway No. 4. About $10,000.

Ore., Dallas—Polk Co. Comrs. had plans prepared for paving Dallas-McMinville Rd.

Ore., Enterprise—Wallowa Co. plans to build with State and Federal aid Flora-Enterprise Rd., to be part of forest roads. About $29,000.

Ore., Gold Beach—Curry Co. having plans prepared by State Highway Dept., Salem, for road from Coos Co. line to California line. Noted Sept. 27.

Ore., Roseburg—City Council authorized paving Rose and Hamilton Sts. About $12,000.

Ore., The Dalles—Wasco Co. received no bids for Dalles-Durfur Sect. of Dalles-California Highway. Noted Sept. 20.

California—State Highway Comn., Sacramento, will build roads in various counties, cost to be borne by Highway Comn. and counties: (a) cost of entire road, (b) state's contribution: Weaverville-Eureka Rd., (a) $1,175,000, (b) $393,240; Pacheco Pass Rd., (a) $1,618,413, (b) $541,650; Yosemite Rd., (a) $533,544, (b) $178,650; Coalinga-San Lucas Rd., (a) $1,503,518, (b) $502,860; Famosa-Passo Robles Rd., (a) $1,339,596, (b) $448,320; San Bernardino-Barstow Rd., (a) $534,112, (b) $178,770; San Bernardino-Yuma Rd., (a) $2,260,362, (b) $756,510. A. B. Fletcher, state highway engr.

Cal., El Cajon—Town defeated $11,500 bonds building state highway through town, concrete. Noted Aug. 30.

Cal., Oroville—Butte Co. plans to pave Sacramento and Reading Aves. C. F. Belding, co. clk.

Cal., San Diego—City had plans prepared improving Park Blvd. Indiana St., and Robinson Ave. About $35,173. G. Cromwell, city engr.

Cal., San Francisco—Bd. Pub. Wks. appropriated an additional sum $400,000 for street repair work; $23 375 of amount to be spent on repaving portion Mission St. M. M. O'Shaughnessy city engr.

Ont., Sandwich—West Township lets contract about Oct. 15 for building concrete pavement. About $30,000. J. J. Newman, David Bldg., Windsor, engr.

BIDS DESIRED

N. J., Jersey City—(Official)—Until Oct. 18, by Bd. Comrs., improving Dwight St. and De Kalb Ave.; asphalt paving on concrete base; Van Cleef St. and Germania Ave., bituminous concrete on concrete base. C. A. Van Kuren, city engr. Noted Oct. 4.

N. J., Jersey City—Until Oct. 23, by City repaving portion Tonnele Ave., wood block. C. A. Van Kuren, city engr. Noted July 12.

N. J., South Orange—(Official) — Until Oct. 16, by Twp. Com., macadam pavements, cement sidewalks and curbing on Walton Ave. and Wellesley St. I. T. Redfern, engr. Noted Sept. 20.

W. Va., Morgantown—Until Nov. 6 by Monongalia Co. Court, paving Deckers Creek Rd. in Morgan Dist., concrete or macadam.

W. Va., Wayne—Until Oct. 13, by S. J. Crum, clk. Wayne Co., road in Union Dist., and Mill Creek Rd., Butler Dist.

O., Bryan—(Official)—Until Oct. 20, by J. A. Neill, village clk., improving portion Wilson, High and Union Sts.

Indiana—By Co. Comrs. building roads as follows: Oct. 26. Marshall Co., Plymouth, 5 gravel roads, Tippecanoe, Center, German, Union and Walnut Twps. O. H. Weber, aud. Oct. 27, Grant and Huntington Cos., Marion, stone road, Van Buren Twp., Grant Co., Jefferson Twp., Huntington Co. M. McRae, aud. Oct. 29, Marion Co., Indianapolis, building and improving Southeastern Ave., Warren Twp. L. K. Fesler, aud. Nov. 6, Harrison Co., Corydon, 11,471 ft. road between Posey and Webster Twps. S. C. Mauck, aud. Nov. 6, Jasper Co., Rensselaer, 2 stone roads Marion and Barkley Twps. J. P. Hammond, aud.

Ill., Berwyn—(Official)—Until Oct. 16, by J. M. Humiston, secy. bd. local impvts., grading and paving portions Clinton, Wisconsin, Harvey and Wenonah Aves.; advertised in this issue.

Ill., East St. Louis—Until Oct. 15, by Bd. Pub. Impvts. brick paving, marginal and sandstone curb, vitr. pipe on State St.; also bridge over drainage canal. About $300,000. E. S. Harper, 1413 State St., engr.

Ark., Conway—Until Oct. 22, by Faulkner Co. Rd. Impvt. Dist. No. 1, for 9-mi. hard surface roads. W. J. Grummer, secy. B. G. Wilson, engr.

Idaho, Bonners Ferry—(Official)—Until Oct. 20, by Boundary Co. for hillside grading and building small bridges. About $63,000. J. V. Stanley, clk. Noted Sept. 27.

Washington — Until Oct. 22, by State Highway Comn., Olympia, grading and draining 12 mi. Sunset Highway. Noted Sept. 27.

Wash., Ephrata—Until Oct. 22, by Grant Co. Comrs., surfacing 3 mi. Permanent Highway No. 10, also 2 mi. Permanent Highway No. 8A. Noted Aug. 30.

Cal., San Diego—Until Oct. 17, by J. B. McLees, clk. San Diego Co., building highway near Riverview.

Ont., Cornwall—Until Oct. 17, by A. I. MacDonell, co. clk., building 60 mi. waterbound macadam or bituminous macadam roads in Stormont, Dundas and Glengarry Cos. J. G. Cameron, Finch, co. road supt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Massachusetts**—State Highway Dept., Boston, let contract paving roads in Westford to J. E. Watkins, Amesbury, $10,143; Braintree to E. C. Sargent, Adams Bldg., Quincy, $17,719; Deerfield, B. Perini & Co., Ashland, $22,655; Egremont and Sheffield, L. C. Fay & Co., 318 Main St., Springfield, $52,315. Noted Oct. 4.

★**Massachusetts**—(Official)—State Highway Comn., Boston, let contract 5000 ft. highway in Stockbridge to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $17,238. Noted Sept. 27.

★**Mass., Boston**—City let contract paving Grove St., East Boston, Museum Rd., Roxbury, and Minton St., West Roxbury, sheet asphalt and topeka, to Warren Bros., 162 Berkeley St.; about $16,800; Cliffmont St., West Roxbury, bituminous macadam to M. De Matteo, 146 Dudley St., Roslindale, about $19,827.

N. Y., Buffalo—(Official)—City received low bids paving portions Walnut St., from Erie Contg. Co., Morgan Bldg., brick, $13,000; German Rock Asphalt Co., Morgan Bldg., asphalt, $11,650; H. P. Bugard Co., standard asphalt, $12,100. Noted Oct. 4.

★**N. Y., Fulton**—City let contract 13.4 mi. paving and curbing to Pathfinder Constr. Co., $75,000. Noted Aug. 9.

★**N. Y., Tarrytown**—Bd. Trustees let contract paving Bway. to H. B. Sproul, 105 South Division St., Peekskill. Noted June 28.

★**N. J., Jersey City**—(Official)—City let contract paving Central Ave., involving 30,035 sq.yd asphalt, and 20-in. c.-i. water main, to Clinton Constr. Co., 306 Charles St., Hoboken, 98%. Noted Sept. 27.

★**N. J., North Bergen**—(Weehawken P. O.)—Twp. let contract repaving 31st St. to Clinton Constr. Co., 306 Charles St., Hoboken, $20,761; Bulls Ferry Rd., to Nolan & Hornung, 309 Kerrigan Ave., Union, $32,320. Noted Sept. 20.

★**N. J., Princeton**—Boro. Council let contract rebuilding Stockton St., warrenite, to Reardon Co., Princeton. About $35,649. Noted July 26.

W. Va., Charleston—(Official)—City received low bid paving and curbing several streets and alleys from Central Eng. Co., Charleston, $58,688. Noted Sept. 6.

★**W. Va., Huntington**—City let contract paving portions Doulton and Olney Aves., 30th and 3rd Sts., Dixie block, to J. Ullom, $23,485.

★**Ky., Covington**—Kenton Co. Comrs. let contract paving road south from Lexington Turnpike, waterbound macadam, to J. Exterkamp, 8th and Phila. Sts. About $10,000.

★**O., Bryan**—Williams Co. Comrs. let contract road work to A. M. Acker, Bryan, Doughton Rd., 2 mi., waterbound macadam, $22,000; C. Thomas, 23 East Jackson Blvd., Chicago, Stryker Rd., macadam, $38,000; J. A. Elder, Bryan, Cassell Rd., waterbound macadam, $22,500; Brannon Constr. Co., Bryan, Mt. Pelier Rd., 2 mi., bituminous macadam, $234,000. Noted Sept. 6.

★**O., Bryan** — (Official) — Williams Co. Comrs. let contract building 1.94 mi. public highway in Springfield Twp., to Chas. Thomas, Stryker, $20,947. Noted Sept. 20.

★**O., Cleveland**—Bd. Control let contract paving and improving portion Locke Ave., to O. J. Leach, 504 Eddy Rd. About $18,416. Noted Aug. 23.

O., Cleveland—(Official)—City received low bids paving Ivanhoe Rd., grade elimination, from Rieley Bros., 348 Arcade, $24,252; and Baldwin Bros., 560 Rose Bldg., $35,436. Noted Sept. 20.

O., Cleveland — (Official) — City received low bid grading, draining, curbing and repaving Sect. 1, Woodhill Rd., from B. M. Pejsa Co., 2359 East 93rd St., $62,770; Sect. 2 from Baldwin Bros. Co., 560 Rose Bldg., $60,450. Noted Sept. 27.

★**O., Hamilton**—City let contract paving West Main St. to Federal Asphalt Paving Co., $34,481; Grand Blvd. to Andrews Asphalt Co., $50,153; both of Reutschler Bldg., Hamilton. Noted Sept. 27.

★**Indiana**—(Official)—Bd. Co. Comrs. let contract building roads various twps. as follows: Bartholomew Co., Columbus, gravel road, Washington Twp., to A. H. Fry, Columbia City, $9565; Vermilion Co., Newport, 2 gravel roads to J. Bonwell, Dana, Ind., $8594; Clinton Co., Frankfort, gravel roads Perry Twp. to W. J. Nees,

Streets and Roads (Continued)

J. C. Miller and Thompson & Kelley, all of Frankfort; Elkhart Co., Goshen, concrete road, Concord Twp. to Foley Constr. Co., 127 North Dearborn St., Chicago, $8895. Noted Sept. 20.

Ind., **Indianapolis**—City received low bid paving portions Gladstone Ave., asphalt, from Union Asphalt Constr. Co., 308 Amer. Central Life Bldg., $4.51 per lin.ft.

★**Michigan** — State Highway Comn., Lansing, let contract grading 9½ mi. road from Montague to New Era, to C. P. Walker, Fremont, $63,460. Noted June 21.

★**Mich., Kalamazoo**—Kalamazoo Co. Rd. Comrs. let contract building road from Yorkville to east side of Gulf Lake & Turners Resort, Dist. No. 1, to H. A. Nichols, Hastings, $23,972. Noted Sept. 20.

★**Mich., Pontiac**—Oakland Co. let contract building 3 mi. Elizabeth Lake Rd., and 2½ mi. Clawson Rd., Royal Oak twp., concrete, to Ladue & Scotten, Penobscot Bldg., Detroit, $54,961 and $54,422 respectively; 7 mi. Maple Ave., Bloomfield Twp., concrete, to Slater Constr. Co., Pontiac, $143,106.

★**Ill., Rock Island**—City let contract paving portions 15th, West 17th and 18th Sts., and 4th Ave., to McCarthy Co., 3rd and Perry Sts., Davenport, Ia. About $2.37, $2.32, $2.30, and $2.32 per sq.yd. respectively. Noted Sept. 13.

★**Ill., Springfield**—City let contract paving and curbing portions of 13th St., brick, to J. A. Pattison Co., Springfield, $1.80 per sq.yd. and 58c. per lin.ft. respectively.

★**Mont., Butte**—Silver Bow Co. let contract paving guttering, draining and curbing portion South Montana St., to J. C. Maguire, 615 Daly Bank Bldg. About $13,673. Noted Sept. 13.

★**Mo., St. Joseph**—Bd. Pub. Wks. let contract paving portion Duncan St., asphaltic concrete, to Metropolitan Paving Co., 7th and Olive Sts. Noted July 5.

★**Ariz., Phoenix**—City let contract improving portion Willetta and Van Buren Sts., Grand and 7th Aves., to Southwestern Contr. Co. About $54,000.

★**Ariz., Prescott**—Yavapai Co. let contract 5-mi. concrete highway from Jerome to Clarkdale, to Fleming & Stitzer, Prescott. About $65,000.

★**Wash., Seattle** — (Official) — King. Co. Comrs. let contract grading and graveling road between Renton and Renton-Junction, to E. J. Macquaid, 6556 3rd Ave., N. W., $14,083. Noted Oct. 4.

Wash., Seattle—City received low bids paving Beacon Ave., from J. B. Romano, 3314 16th Ave., $33,897; Superior Constr. Co., 1642 Lane St., $34,160; P. J. McHugh, 3rd and North Mercer St., $34,501.

★**Oregon**—State Highway Dept., Salem, let contract macadamizing Pacific Highway from Grants Pass to Josephine Co. line, 8 mi., to A. Anderson, Grants Pass.

★**Ore., The Dalles**—Wasco Co. Court let contract paving portion Columbia Highway between Mosier and Chenowith Creek, to Elliott Contr. Co., McKay Bldg., Portland. About $70,124. Noted Sept. 20.

Cal., Los Angeles—(Official)—City received low bid improving Sherman Dr., from W. M. Ledbetter, 1 Pacific Electric Bldg., $24,000. Former contract was rescinded and work readvertised. Noted Sept. 27.

Cal., Los Angeles—Bd. Pub. Wks. received low bid building concrete pavement, cultivating and oiling 6 mi. Reseda Ave., from G. H. Oswald, O. T. Johnson Bldg. About $140,000. Noted Sept. 27.

Cal, Los Angeles—City received bids grading and constructing bitulithic pavement, storm drains and sewers on West 1st St., from G. H. Oswald, O. T. Johnson Bldg., $213,000; Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., $222,622. Noted Oct. 4.

★**Cal., Oroville**—(Official)—Butte Co. rejected bids improving roads in Dist. No. 2. All work to be done by day labor. Noted Sept. 20.

★**Cal., South Pasadena**—City let contract improving Fremont Ave., to Montgomery & Ducey, 151 South Hill St. About $21,816. Noted Sept. 27.

★**Que., St. Alexis**—Municipal Council let contract building macadam road to Pierre Laberge, Riviere du Moulin, Chicoutimi. Noted June 21.

RAILWAYS—STEAM & ELECTRIC

Proposed Work

New Jersey—See "Buildings," Newark.

Ohio—See "Industrial Works," Youngstown.

Colorado—See "Miscellaneous," Denver.

Utah—Oregon Short Line R.R. plans to spend about $1,000,000 for building 40 mi. feeder lines in northern Utah and southern Idaho. Plans provide for extension of 3.85 mi. to Baker Spur north of Brigham and 9.65 mi. from Garland to Beaver River City. Other improvements to be made in southern Idaho include branch from Menan to Annis, 2.73 mi.; Lincoln and Furth, 2 lines, 3.59 and 7.44 mi., from Collins, N. E., 7.26 mi. and Keever to Thomas, 4.55 mi. C. Stradley, Salt Lake City, ch. engr.

California—Pacific Electric R.R. plans to build electric line from Redlands to Yucaipa Valley, about 13 to 14 mi. J. McMillan, Pacific Electric Bldg., Los Angeles, genl. mgr.

EXCAVATION AND DREDGING

Proposed Work

Ala., Haynesville — Drainage — Lowndes Co. making preliminary surveys for system to drain 20,000 acres, vicinity of Letohatchie Creek. About $200,000. J. R. Scott, Sarasota and Barstow, Fla., engr.

Miss., Carrollton—Drainage—Potacocowa D.D. retained Morgan Eng. Co., engrs., Goodwyn Institute, Memphis, Tenn., to make surveys and prepare plans for system to reclaim 25,000 acres, Potacocowa Creek.

Minn., Anoka—Ditch—Anoka Co. soon receives bids building Co. Ditch No. 59. About $35,000. F. J Armstrong, 721 Germania Life Bldg., St. Paul, engr.

Minn., Anoka—(Official)—Ditch—Anoka Co. rejected bids building Co. Ditch No. 60. Noted Sept. 20.

Minn., Fairmont—Ditch—Martin Co. had plans prepared by Jones & Curtiss, engrs., 241 Pfeiffer Bldg., for Judicial Ditch No. 82. About $50,000.

Minn., St. Cloud — Ditch — Stearns Co. plans to build Co. Ditch No. 44, 27-mi. long. About $46,000. N. Thomry, co. aud.

Minn., Slayton — (Official) — Ditches — Murray Co. rejected bids building Judicial Ditch No. 19, involving 101,000 ft. 6- to 26-in. tile, cost, $44,542; Co. Ditch No. 6, 32,700 ft. 6- to 28-in. tile, $15,315. Noted Sept. 20.

Colo., Mancos—Ditch—Dir. Summit Land & Irrigation Co. plan to build new intake ditch. About $56,000 available for work. J. W. Ritter, chn.

BIDS DESIRED

N. Y., Albany—(Official)—Barge Canal Improvements—Until Nov. 2, by W. W. Wotherspoon, supt. pub. wks., Capitol; advertised in this issue.

Ga., Athens—Drainage—Until Oct. 23, by Beaver Dam D.D. No. 1, building 13-mi. ditches along Beaver Dam Creek to reclaim 1600 acres. About $35,732. H. H. Hampton, comr. C. M. Straham, Athens, engr. Noted Sept. 27.

Ia., Sibley—Drainage—Until Nov. 2, by Osceola Co., building D D. No. 26, involving 57,230 ft. 6- to 30-in. tile. D. W. Clayton, aud.

S. D., Sioux Falls—Drainage—Until Oct. 13, by E. H. Shonkle, aud., Minnehaha Co., cleaning and deepening 10-mi. channel D D. Nos. 1 and 2, also cutting 2-mi. ditches, 20-ft. bottom, and straightening Big Sioux River, north of Sioux Falls, part of D.D. Nos. 1 and 2. H. M. Derr, Pierre, state engr.

Tex., Anahuac—See "Miscellaneous."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. J., Jersey City—See "Miscellaneous."

★**Ill., Pittsfield** — (Official) — Canals — Canal Comrs. Sny Island Levee D. D. let contract building 3½ mi. canals, 30-ft. bottom, involving levee and auxiliary side ditches and 358,500 cu.yd. excav., to A. V. Wills & Sons, 517 Boatmans Bank Bldg., St. Louis, Mo., 15c. per cu.yd. Noted Sept. 28.

★**Ia., Estherville**—Ditch—Emmet Co. let contract building D. D. No. 108, to Cement Products Co., Estherville, tile, $18,518; M. J. Ayhoard, Spencer, labor, $11,492. Noted Sept. 27.

★**Minn., Anoka** — (Official) —Ditch—Anoka Co. let contract building Co. Ditch No. 41 to K. C. Richardson, Anoka, $16,400. Noted Sept. 20.

★**Minn., Le Sueur**—(Official)—Ditch—Le Sueur Co. let contract building Co. Ditch No. 45 to V. E. McDonald, Meriden, $27,004. Noted Sept. 20.

★**Minn., Walker**—(Official)—Ditch—Cass Co. let contract building Judicial Ditch No. 8, involving 98,925.8 cu.yd. excav. and Judicial Ditch No. 9, Cass and Wadena Cos., 104,462 cu.yd. excav. to E. E. Griffith, Backus, .1045c. per cu.yd.

Cal., Modesto— Canal — Modesto Irrigation Dist. received low bids building sections concrete lining in main canal between Rariden Fill and Salter Fill, from C. E. Cotton, 16 California St., $30, 230, and Tieslau Bros., Builders' Ex., both of San Francisco, $30,492.

★**Cal., Stockton**—Canal—West Side Irrigation Dist. let contract building 40 mi. canals to Johnson Bros., Tracy and C. H. Laiklin, Manteca, $55,000; building bridge over intake canal to Jacobs & Sayles, Stockton, $2488. Noted Aug. 9.

INDUSTRIAL WORKS

Proposed Work

Conn., Middletown—Mattabosset Brewing Co., c/o S. P. Moscalitts, 84 Veteran St., Meriden, soon lets contract 5-story, 80 x 88-ft. concrete plant. About $75,000. C. H. Hottinger & Co., Rowe St., Roslindale, Mass., archts.

N. Y., Cobleskill—J. Kayser & Co., 45 East 17th St., New York City, plans to build silk factory on East Main St. About $50,000.

N. Y., New York—T. J. McCahill, 45 East 42nd St., having plans prepared by G. W. Culgin, archt., 15 Broad St., for garage at 144-148 East 41st St. About $75,000.

N. Y., New York—Oval Garage Corp., 950 Ave. St. John, soon lets contract 3-story, 100x150-ft. brick and concrete garage on Whitlock Ave. and Faile St. Goldner & Goldberg, 391 East 149th St., archts. About $75,000. Noted May 24.

N. J., Garfield—(Passaic P. O.)—Passaic Bakers' Exchange plans bakery and flour warehouse, Maple Ave. and Van Winkle St. About $75,000.

N. J., Gloucester City — Pennsylvania Shipbuilding Co. having plans prepared by G. F. Pawling & Co., engrs., 1438 South Penn Sq., Phila., for several 1-story buildings. About $1,000,000.

N. J., Newark—Goodyear Tire & Rubber Co., 123 Washington St., plans 6-story, 100x250-ft. brick and concrete warehouse.

N. J., Paterson—Commonwealth Chemical Co. plans new factory East 42nd and East 43rd Sts. About $100,000. Address E. C. King.

Pa., Scranton—Industrial Bureau of Bd. Trade plans 4-story, 50 x 140-ft. incubator factory. About $100,000.

Md., Baltimore—Poole Eng. Co., West of N. C. Ry. and north of Padonia Sta., had plans prepared for 150 x 500-ft. gun factory east of its Woodbury plant. About $2,000,000.

N. C., Rockingham—Steele Mills Co. plans to build additions to plant, including 1-story, 175x285-ft. weave shed. About $300,000.

S. C., Columbia—See "Streets and Roads."

Ala., Birmingham—Tennessee Coal Iron & R.R. Co., 9th Ave., plans new electrically driven mills and other improvements. About $11,000,000.

La., Monroe — Vicksburg, Shreveport & Pacific R.R. plans additions to shops, including 97 x 120-ft. machine shop, blacksmith shop, etc. About $100,000. H. B. Hearn, Shreveport, supt. Arnold Eng. Co., 105 South La Salle St., Chicago, engrs.

La., New Orleans — Standard Brewing Co., 514-32 North Johnson St., plans to rebuild bottling plant recently destroyed by fire. About $70,000.

O., Columbus—Federal Chemical Co., Lincoln Bldg., Louisville, Ky., plans sulphuric acid plant here. About $250,000. W. Crady, mgr.

O., Youngstown—Youngstown & Suburban Ry. plans power plant at Southern Park and addition to one at South Side Park; also double tracking lines. A. M. Hartford, 21-23 East Front St., genl. mgr.

Industrial Works (Continued)

Ind., Kokomo—Kokomo Rubber Co., 1042 South Main St., will increase its capital stock from $200,000 to $1,000,000, and plans addition to plant.

Ind., Whiting—Great Western Smelting & Refining Co., of Chicago, purchased 25-acre site between New York Ave. and Indianapolis Blvd., and plans to build plant. About $50,000.

Mich., Port Huron—Mueller Mfg. Co., 512 W. Cerro Gordo St., Decatur, Ill., plans additional factory here, including 86 x 140-ft. brass foundry, 80 x 100-ft. rod mill, power house, sheds, etc. About $400,000. A. Mueller, pres.

Wis., Ashland—Ashland Light, Power & Street Ry. Co., 212 West 2nd St., plans 1200-h.p. hydro-electric plant on falls at mouth of Montreal River. About $100,000. F. R. Winders, genl. supt.

Wis., Milwaukee — Kieckhefer Box Co., 16th St. Viaduct, plans 1-story, 190.6 x 217-ft. rein.-con. and brick addition to plant. About $50,000. J. W. Kieckhefer, pres.

Minn., Minneapolis—Electric Machinery Co., 14th Ave. and Tyler St., N. E., plans to build an addition to its plant. About $50,000.

Minn., Minneapolis—Federal Steel & Mfg. Co., 609 5th St., S., recently purchased 12 acres land and plans 3 110 x 400-ft. machine shops and 100 x 125-ft. foundry. About $500,000. F. D. McClure, pres.

Minn., Minneapolis—Minneapolis Steel & Machinery Co., 29th St., and Minnehaha Pkway., having plans prepared for addition to plant.

Minn., Minneapolis — M. Pfaum, of G. Pfaum & Sons, and B. Zimmer of Twin City Mission Furniture Co., 2285 Hamp St., plans factory, Marquette Ave., and 19th St. About $200,000.

Neb., Omaha—Emerson-Brantingham Implement Co., 1101 Jackson St., plans to build warehouse. About $90,000.

Mo., St. Louis—Monesato Chemical Co., 1800 South 2nd St., had plans prepared for a new plant. About $1,000,000. Brennecke & Fay, Fullerton Bldg., archts. Noted Sept. 20.

Tex., Houston—Texas Textile Co., recently organized with capital stock of $250,000, plans 60x200-ft factory. About $50,000. B. N. Garrett, pres.

Okla., Vinita—Southwestern Power Co., Vinita, plans power plant here, to include string of 3 dams across Grand River. About $2,000,000.

N. M., Clovis—See "Buildings."

Wash., Spokane—Sperry Flour Co., 662 Mallon St., plans addition to plant. About $300,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—New York Shipbuilding Corp., 120 Bway., New York City, let contract steel shipbuilding plant to American International Corp., 120 Bway., New York City. About $1,000,000.

★**Mass., Brightwood**—Springfield Aircraft Corp. has taken over main building of Wason Mfg. Co., and let contract for addition to same to F. T. Ley & Co., 495-275 Main St. About $50,000.

★**N. Y., Buffalo**—Standard Oil Co., 26 Bway., New York City, let contract 5-story, 60x207-ft. rein.-con. storage warehouse to H. D. Best Co., 52 Vanderbilt Ave., New York City. About $100,000. Noted Oct. 4.

★**Pa., Phila.**—Dept. Health and Charities let contract power house, 34th and Pine Sts., for Phila. General Hospital, to Standard Constr. Co., Drexel Bldg., $238,600.

★**Ky., Louisville**—Kentucky Pub. Elevator Co., 14th and Gallagher Sts., let contract rebuilding grain elevator recently destroyed by fire, rein.-conc., to Witherspoon-Englar Co., 53 West Jackson Blvd., Chicago. $200,000. Noted Sept. 6.

★**Ill., Mattoon**—Illinois Central R.R. let contract for roundhouse to J. E. Nelson & Sons, 118 North La Salle St., Chicago. About $100,000. Noted Sept. 27.

★**Tex., Dallas**—E. B. Doggett let contract 90 x 100-ft. brick and rein.-con. warehouse to G. W. Moore Constr. Co., 706 Sumpter Bldg. About $50,000.

★**Ont., Hamilton**—American Can Co., Emerald St., N., let contract addition to factory to W. H. Cooper, Clyde Bldg. About $125,000.

★**B. C., Victoria**—Dominion Government let contract 1-story, 200 x 700-ft. warehouse to Grant Smith & Co., Henry Bldg., Seattle, Wash.

BUILDINGS

Proposed Work

Mass., New Bedford—Lodge—Loom Fixers' Union plans, 3-story, 70 x 78 ft. About $60,000. Geo. Newton, pres. J. I. Higgins, 44 Borden Blk., Fall River, archt.

N. Y., Brooklyn—Hospital—Beth Moses Hospital had plans prepared by Henry J. Nurick, archt., 830 Putnam Ave., 5-story, 90 x 100-ft.

N. Y., Buffalo—Depot—New York Central R.R. plans 2-story, 60 x 500-ft. rein.-con., on Curtiss St. About $250,000. G. W. Kittredge, Grand Central Terminal, New York City, ch. engr.

N. Y., Buffalo—Hospital—Mother of Mercy Hospital, c/o. Mt. Mercy Academy, 1475 Abbott Rd., plans, brick and steel. About $200,000. H. Spann, 38 Ardmore Pl., archt.

N. Y., Herkimer — (Official) — Hospitals—Herkimer Co. Bd. Supervs. lets contract about Nov. 15, for 3 tuberculosis hospitals. About $85,000. G. W. Boyle, co. purch. agt. Pember & Champagne, 24 James St., Albany, archts. Noted Aug. 30.

N. Y., New York—Infirmary—Dept. of Correction had plans prepared, 3-story, 32 x 215 ft. About $120,000. C. B. Meyers, 1 Union Sq., archt.

N. Y., Scarsdale — School — Bd. Educ. plans, 2-story. About $55,000. G. Lowell, archt., 225 5th Ave., New York City, soon receives bids.

N. Y., Troy—Laboratory — Rensselaer Polytechnic Institute plans to enlarge its laboratory. About $100,000.

N. J., Newark—Station, etc.—Erie R.R. had plans prepared for new passenger station, steel bridge and yards at 4th Ave. About $875,000. R. S. Parsons, 50 Church St., New York City, ch. engr.

N. J., North Bergen—Schools—Bd. Educ. plans to build 2 new schools. About $150,000.

N. J., Trenton — Capitol — State House Comn., Trenton, had plans prepared enlarging state capitol. About $400,000.

N. J., Wrightstown—Church—Presbyterian Synod of New Jersey, Beverly, plans to build. About $50,000. A. J. Phillips, pastor.

Pa., Phila.—Theatre—Stanley Realty Co. and Mastbaum Bros. & Fleischer, 1426 South Penn Sq., plans 1-story, 152 x 176 ft. About $700,000. Hoffman Co., archts., Finance Bldg., soon receive bids.

Pa., Wyomissing—School—Bd. Educ. plans to build vocational school; $90,000 bond issue to be voted on at November election.

Md., Baltimore—College—Morgan College plans. About $50,000. J. O. Spencer, Fulton and Edmondson Aves., pres. E. Tilton, archt., 52 Vanderbilt Ave., New York City, receives bids about Oct. 15.

W. Va., Charleston — Church — First Christian Congregation plans 1-story, 81 x 115-ft. About $60,000. W. E. Moore, 1112 Virginia St., chn. bldg. com. W. H. St. Clair, Capitol and Quarrier Sts., archt.

W. Va., Princeton—Court House—Mercer Co. Comrs. having plans prepared by A. F. Wyson, archt., 3-story, 90 x 200-ft. About $200,000.

Ala., Birmingham — Schools — Bd. Educ. plans to build high school and 5 elementary schools. Geo. B. Ward, mayor.

La., Shreveport—Hotel—T. C. Barret had plans prepared, Louisiana and Crockett Sts. About $150,000.

Tenn., Chattanooga—Chapel and Science Hall—Chattanooga University plans. About $150,000.

O., Akron—Store and Office—A. B. Smith, 188 South Main St., receiving bids about Oct. 15 for 4- or 10-story, 40x90-ft., South Main St. About $200,000. W. C. Owen & Co., 407-1900 Euclid Bldg., Cleveland, archt.

O., Cincinnati — Home — Church Federation, Union Central Bldg., plans. About $100,000.

O., Cleveland—Store and Automobile—J. Laronge, of J. Laronge Co., Williamson Bldg., purchased site on Euclid Ave. and East 66th St., and plans to build. Cost between $350,000 to $400,000.

O., Columbus — Research — State plans juvenile research building on West Broad St. About $100,000.

O., Elyria—Office—Elyria Telephone Co. will increase its capital stock from $200,000 to $350,000 and plans automatic telephone system and office building on 2nd St.

O., Gallipolis—Dormitories—Bd. Administration of State of Ohio, Oak and 17th St., Columbus, had plans prepared for 4 dormitories at Ohio Hospital for Epileptics. About $80,000. T. E. Davey, pres.

O., Springfield — School — City election soon to vote on $160,000 bond issue for school. Chas. E. Ashburner, mayor.

O., Youngstown—Club House—Ukrainian Club of Youngstown plans, 1- and 2-story, 53 x 208-ft. About $50,000. H. Lyman Ford, archt., 206 Hippodrome Bldg., Cleveland, soon receives bids.

Ind., Wabash—Hotel—Wabash Hotel Realty Co., c/o. Wabash Cabinet Co., having plans prepared by Nicol & Dietz, archts., 212 Murdock Bldg., Lafayette, 4-story, West Market and Cass Sts. About $115,000. T. F. Vaughn, chn. bldg. com.

Mich., Detroit—Store—Bigelow Co., 1070-2 Penobscot Bldg., having plans prepared by R. H. Marr, archt., Kresge Bldg., for rein.-con. store and garage at 53 East Hancock St. About $60,000.

Ill., Chicago—Bank—South West Trust & Savings Bank, 35th St. and Archer Ave., plans, 2-story, 127 x 160-ft. About $75,000. Weary & Alford, 1907 South Michigan Ave., archts.

Neb., Lincoln—Store—Magee's Clothing and Furnishings, 1109 O St., having plans prepared by E. Davis, archt., 515 Security Mutual Life Bldg., 3-story, 50x142-ft., brick and rein.-con. About $75,000.

Mo., Kansas City—Nurses' Home—Christian Hospital, 27th and Paseo Sts., plans 3-story, 40 x 115-ft. About $75,000. H. F. Holt, 315 East 10th St., archt.

Tex., El Paso—Schools—City plans $100,000 bond issue to build new schools.

N. M., Clovis—Office—Atchison, Topeka & Santa Fe. Ry. plans office buildings and addition to shops. About $100,000. C. F. W. Felt, Ry. Ex. Bldg., Chicago, ch. engr.

Ariz., Phoenix—Capitol—Com. of State Institutions having plans prepared by John B. Lyman, archt., Capitol Bldg., for addition to State Capitol.

Wash., Olympia—Temple—State having plans prepared by Wilder & White, archts., 50 Church St., New York City, for Temple of Justice. About $350,000.

Wash., Spokane — Infirmary — Spokane Co. Comrs. plan, at Tuberculosis Sanitarium at Edgecliff. About $80,000.

Cal., Los Angeles — Store — Harris & Frank, 437 South Spring St., having plans prepared by A. C. Martin, archt., 430 Higgins Bldg., 6-story, 115 x 150-ft. brick, rein.-con., 7th and Hill Sts.

Cal., Sacramento—Home—Chamber of Commerce plans, 7th St. About $50,000. C. C. Virden, pres.

Que., Ste. Anne De Bellevue—Hospital—Military Hospitals Comn., Drummond Bldg., Montreal, receives bids about Oct. 20, limestone and brick. About $200,000.

BIDS DESIRED

N. Y., New York — (Official) — Keeper's House—Until Oct. 23, by Bd. Water Supply, Municipal Bldg., for keeper's house, garage, etc., Silver Lake Reservoir (Borough of Richmond). C. Strauss, pres., advertised in this issue.

Colo., Denver—(Official)—Church—Until Oct. 28, by Marion & Norton, archts., 221 Chamber of Commerce Bldg., 2-story, 100 x 100-ft., concrete and brick, for Washington Park Community congregation. Noted Sept. 27.

Cal., Healdsburg — High School — Until Oct. 22, by F. McConnell, clk. bd. educ. About $90,000. W. H. Weeks, 75 Post St., San Francisco, archt. Noted July 12.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., Hallowell** — School — State School for Girls, Portland, let contract, 2-story, 50 x 122-ft., brick, to A. Hanson & Son, Water St., Augusta, $50,000. Noted Aug. 9.

★**Mass., Athol** — Church — Athol Methodist Episcopalian Church Society let contract to L. B. Taylor, Athol, $70,000. Noted Aug. 23.

Buildings (Continued)

Mass., Somerville—High School—Bd. Educ. received low bids, 2-story, 80x86-ft., from J. B. Byrne, Inc., 162 Sydney St., Cambridge, $68,911; J. M. Hartwell, 46 Cornhill St., Boston, $71,950. Noted Oct. 4.

★**Mass., Waltham** — Theater — W. H. Kingsbury, c/o Funk & Wilcox, archts., 120 Boylston St., Boston, let contract 1-story, 55 x 180-ft., moving picture theater, stores, office and garage, to J. J. Powers, 33 Myrtle Ave., Cambridge, $50,000.

N. Y., Thiells—Home—F. A. Vanderlip, pres. bd. mgrs., Letchworth Village, received only bid from Kelly & Kelly, 12th St., Long Island City, $116,300. Noted Sept. 13.

★**N. J., Camden** — Bank — Merchants' Trust Co., Bway. and Carman St., let contract 1- and 2-story, 40 x 90-ft., to Chas. McCaul Co., Presser Bldg., Phila. About $100,000. Noted July 12.

N. J., Newark—Fire House—City received low bid 2-story, Sanford Ave., and Palm St., from E. M. Waldron & Co., 6th St. About $50,000. Noted Sept. 27.

★**O., Cleveland** — Church — Congregation St. Casimirs Polish Church let contract, 1-story, 80 x 140-ft., to C. A. Carson Co., 6408 Euclid Ave. About $100,000.

★**Mich., Muskegon**—Bank and Office—Union National Bank, 65 West Western Ave., let contract 8-story, 66x132-ft., brick, granite and terra cotta, to Hauser-Owen-Ames Co., 40 Pere St., N. E., Grand Rapids, $350,000. Noted Apr. 26.

★**Ill., Chicago** — Armory — Dept. Pub. Wks. and Bldgs. let contract to Hansen Bros., 1166 North Clark St., $100,000.

★**Wis., Niagara**—High School—Bd. Educ. let contract, 2-story, 56 x 138-ft., to D. Hubert, Spies Bldg., Menominee, $60,000. Noted June 5.

★**Neb., Lincoln**—Store—Rudge & Guenzel, 11th and O Sts., let contract, 7-story, 130 x 142 ft. brick and rein.-con. on N St., to Olson Constr. Co., Chapin Bldg. About $500,000.

★**Ark., Conway** — Administration—Trustees State Normal School, Little Rock, let contract to G. W. Donaghey, 709 West 3rd St., Little Rock, $87,740.

★**Que., Montreal**—School—School Comn. let contract, brick and rein.-con., to J. Frenette, 324 Broeboeuf St. About $115,000.

★**B. C., Rossland**—School—Bd. Educ. let contract, 2-story, brick, to R. Monrieff, Regent Hotel, Vancouver, $65,340. Noted Aug. 30.

FEDERAL GOVERNMENT WORK

Proposed Work

N. Y., Cohoes—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., rejected bids opened Sept. 24. Noted Oct. 4.

N. Y., Yonkers—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., plans on Buena Vista Ave., from Main to Nepperhan St.

Pa., Lancaster—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., plans on block bounded by North Prince, West Chestnut, Market and Marion Sts. About $225,000.

Wash., D. C.—Machine Shop—Bureau Yards and Docks, Navy Dept., receiving bids about Oct. 15, 5-story, at Navy Yard. About $1,200,000.

Wash., D. C.—Pattern Shop—Bureau Yards and Docks, Navy Dept., receiving bids about Oct. 15, 4-story, rein.-con., at Navy Yard. About $475,000.

Wash., D. C.—Storehouse—Bureau Yards and Docks, Navy Dept., receiving bids about Oct. 15, 5-story, rein.-con., at Navy Yard. About $400,000.

Va., Richmond — Hospital — War Dept., Wash., will build here. N. D. Baker, secy.

Miss., Vicksburg — Levee Work — Third Mississippi River Dist., Box 404, rejected bids constructing 303,000 and 1,000,000 cu. yd. levee work. Noted Sept. 6.

Mo., St. Louis — Supply Depot — War Dept., Wash., N. D. Baker, secy., plans on 2nd and Arsenal St. About $300,000.

Cal., Menlo Park—Hospital, etc.—Bureau Yards and Docks, (F. R. Harris, ch.), Navy Dept., Wash., plans building base hospital, remount station and camp proper here. About $500,000.

BIDS DESIRED

Mass., Chelsea—Hospital—Until Oct. 15, by War Dept., N. D. Baker, secy., 1-story.

Conn., New London — Piers and Quay Walls—Until Oct. 15, by Bureau Yards and Docks, Navy Dept., Wash., at Naval Sta.

Conn., New London—Power House and Machine Shop—Until Oct. 22, by Bureau Yards and Docks, Navy Dept, Wash., at Naval Sta.

N. J., Hoboken—Shore Bulkheads—Until Oct. 15, by War Dept., Wash., N. D. Baker, secy., building at Piers 1 and 2.

Pa., Phila.—Heating System—Until Oct. 22, by Bureau Yards and Docks, Navy Dept., Wash., furnishing and installing in structural shop at Navy Yard.

Md., Indian Head — Laboratory — Until Oct. 15, by Bureau Yards and Docks, Navy Dept., Wash., at Naval Sta.

Wash., D. C.—Experimental Sheet Rolling Mill—Until Oct. 20, by Bureau of Standards, Wash.

S. C., Charleston—Wharf and Trestle—Until Oct. 15, by Bureau Yards and Docks, Navy Dept., Wash., building for magazine on east side Cooper River opposite Charleston Navy Yard.

Ga., Forsyth—Post Office—Until Nov. 9, by J. A. Wetmore, superv. archt., treas. dept., Wash. Noted Oct. 4.

Fla., Key West—Tank and Tower—Until Oct. 30, by Comr. Fisheries, Dept. of Commerce, Wash., D. C., building concrete tower and tank at Biological Sta.

La., Grande Isle—Buildings—Until Oct. 29, by E. P. Bertholf, capt. commandant, U. S. Coast Guard, Wash., D. C., for new buildings and accessories for Coast Guard Sta. No. 214, Barataria Bay; advertised in this issue.

Mich., Detroit—Piers, etc.—Until Nov. 8, by U. S. Eng. Office, Detroit, building timber-crib-concrete piers and excav. of channel, East Approach, for 4th Lock, St. Mary's Falls Canal; advertised in this issue.

Neb., Omaha—Lookouts—Until Nov. 1, by J. A. Wetmore, superv. archt., treas. dept., Wash., for lookouts in U. S. Post Office, Court House and Custom House; advertised in this issue.

S. D., Bellefourche—Post Office — Until Nov. 28, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Mo., Harrisonville — Post Office — Until Nov. 13, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Tex., Austin—Post Office—Until Nov. 14, by J. A. Wetmore, superv. archt., treas. dept., Wash.

Cal., Tiburon — Building — Until Oct. 15, by Bureau Yards and Docks, Navy Dept., Wash., building quarters for marine guard.

Cal., Mare Island—(Vallejo P. O.)—Garbage Incinerator — Until Oct. 15, Bureau Yards and Docks, Navy Dept., Wash., at Navy Yard.

P. R., El Cayey—Radio Towers — Until Oct. 15, by Bureau Yards and Docks, Navy Dept., Wash., building 3 600-ft. radio towers at Naval Sta.

P. R., El Cayey—Buildings—Until Oct. 29, by Bureau Yards and Docks, Navy Dept., Wash., constructing 3 radio buildings at Naval Sta.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Boston—Seawalls—U. S. Engr. Office received low bid building at Ft. Warren, Boston Harbor, from Bay State Dredging Co., 247 Atlantic Ave. Noted Sept. 13.

★**R. I., Newport**—Dispensary—Bureau Yards and Docks, Navy Dept., Wash., let contract, at Naval Torpedo Base, to F. T. Ley & Co., 495 Main St., Springfield, Mass., $29,700. Noted Sept. 27.

★**Conn., New London** — Crane — Bureau Yards and Docks, Navy Dept., Wash., let contract furnishing 30-ton revolving crane, Naval Submarine Base, to McMyler-Interstate Co., Bedford, O., $25,500. Noted Oct. 4.

★**Conn., New London**—Officers' Quarters—Bureau Yards and Docks, Navy Dept., Wash., let contract 2 buildings for Officers' Quarters, at Submarine Base, to R. H. Arnold Co., Woodward Bldg., Wash., D. C., $93,991.

N. Y., Brooklyn—Hydraulic Pumps, etc.—Bureau Yards and Docks, Navy Dept., Wash., received low bids (a) net price and time of completion for 2 complete plants, each consisting of 2 pumps, 1 accumulator and 1 storage tank, (b) net price and time of completion for work complete as outlined in Item 1, conforming to the intent of this specification, but with such modifications of detail as are clearly defined and described in proposal under special heading entitled "Exceptions," from E. J. Smith, 30 Church St., New York City, (b) $55,800; time, 200 days, alternate bid, $59,200, 200 days; Carroll Electric Co., 714 12th St., Wash., D. C., (b) $132,000, alternate, $127,000, time 250 days; Admiral & Co., Inc., 1 Dominick St., New York City, (b) $89,452, 250 days.

★**N. Y., Brooklyn**—Power House, Foundations—Bureau Yards and Docks, Navy Dept., Wash., let contract to Whitney Co., 101 Park Ave., New York City, $18,186. Noted Oct. 4.

Pa., Phila.—Dredging — Bureau Yards and Docks, Navy Dept., Wash., received only bid dredging in Reserve Basin, Navy Yard, from Maryland Dredging & Contg. Co., Fidelity Bldg., Baltimore, Md., 36c. per cu.yd. in place and disposal of all material. 36c. if dredged material is deposited.

Pa., Phila. — Quarters for Radio Operators—Bureau Yards and Docks, Navy Dept., Wash., received low bids from W. O. Springer, 1624 West Latimer St., $15,070; Hogg Constr. Co., 1634 Sansom St., $15,070; W. W. Austine Co., $16,010; all of Phila. Noted Sept. 20.

★**Wash., D. C.**—Cement Walks—Comrs. let contract building cement sidewalks (a) 40,000 sq.yd. city walks, (b) 30,000 sq.yd. suburban walks, to W. F. Brenizer & Co., Q and North 1st St., (a) $1.53 per sq.yd. (b) $1.71. Noted Sept. 13.

★**Wash., D. C.**—Office—War Dept., N. D. Baker, secy., let contract office building on The Mall, to G. A. Fuller Co., Munsey Bldg., Wash., D. C., $500,000, cost plus basis.

★**Wash., D. C.** — Storehouse — Bureau Yards and Docks, Navy Dept., let contract building storehouse (temporary timber construction) at Naval Operating Base, Hampton Rds., to Wise Granite & Constr. Co., Amer. Natl. Bank Bldg., Richmond, Va., $64,000.

★**W. Va., Charleston**—Projectile Plant and Air Compressors—Bureau Yards and Docks, Navy Dept., Wash., let contract to Ingersoll Rand Co., 11 Bway., New York City, $22,000.

★**Ky., Glasgow**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to H. G. Mitchell, Scottsburg, $40,500, time 12 months. Noted Oct. 4.

★**Ind., Kendallville**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to E. A. Steininger, Victoria Bldg., St. Louis, Mo., $46,300. Noted Oct. 4.

★**Mich., Detroit**—Backfilling—U. S. Engr. Office, Detroit, let contract backfilling walls of 4th lock, St. Mary's Falls Canal, to O. Daniels Co., 38 South Dearborn St., Chicago, $95,580. Noted Aug. 30.

Minn., St. Peter—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids, from W. D. Lovell, Minneapolis, $43,750; G. W. Stiles Constr. Co., 209 South La Salle St., Chicago, $44,242; Johnson Constr. Co., Fargo, N. D., $47,997. Noted Sept. 6.

Idaho, Twin Falls — Post Office — J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids (a) limestone, (b) sandstone, from R. E. Campbell, Salt Lake City, Utah, (a) $75,443, (b) $75,443; W. D. Lovell, 1415 S.E. 8th Ave., Minneapolis, Minn., (a) $77,800, (b) $76,800; C. Weitz, 713 Mulberry St., Des Moines, Ia., (a) $79,600 (b) $78,500. Noted Aug. 30.

★**Cal., Mare Island**—(Vallejo, P. O.)—Grading—Bureau Yards and Docks, Navy Dept., Wash., let contract grading at Navy Yard, to D. O'Day Co., San Francisco, $45,000. Noted Sept. 13.

★**Cal., San Francisco**—Sick Quarters—Bureau Yards and Docks, Navy Dept., Wash., let contract addition to sick quarters to Schroeder Bros., 256 Folsom St., $30,440.

Cal., San Francisco—Wharf—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids rebuilding west wing of wharf at quarantine station, Angel Island. (a) work complete, using structural steel for cross beams, (b) complete, using rein.-

con. (c) complete, using wood for cross beams; from Thomson Bridge Co., 103 Main St., (a) $26,470, (b) $25,900, (c) $24,640; Healy-Tibbetts Constr. Co., 9 Main St., (a) $26,880, (b) $26,406, (c) $24,848; Duncanson-Harrelson Co., 1405 Chronicle Bldg., (a) $26,894, (b) $26,580, (c) $25,980. Noted Sept. 6.

★**Cal., San Pedro**—Fill—U. S. Eng. Office, 723 Central Bldg., Los Angeles, let contract 120,000 cu.yd. fill, including rip rap protection, to Russell, Green, Foell Co., 2644 Compton St., Los Angeles, $70,000. Noted Aug. 16.

H. T., Kuahua—Mine Storage Building—Bureau Yards and Docks, Navy Dept., Wash., received low bids, steel and frame, at Naval Ammunition Depot, (work complete), from Hamilton & Chambers, Inc., 20 Bway., New York City, $61,400; time 240 days. Noted Sept. 20.

★**Hawaii, Pearl Harbor**—Storehouse—Bureau Yards and Docks, Navy Dept., Wash., let contract to Hamilton Chambers Co., 29 Bway., New York City, $96,670. Noted Sept. 20.

MISCELLANEOUS

Proposed Work

Dock—Portsmouth, R. I.—Rhode Island Marine Constr. & Dry Dock Corp., capitalized at $500,000, plans to build dock here.

Grade Crossing—Trenton, N. J.—Bd. Freeholders Mercer Co. plans to build, at Moore's Sta. About $20,000.

Incinerating Plant—Trenton, N. J.—(Official)—City rejected bids building addition to present crematory. G. B. La Barre, dir. Noted Sept. 13.

Park—Columbia, S. C.—See "Streets and Roads."

Transmission Line—Jacksonville, Fla.—City Comrs. plan to extend electric-light and power-transmission lines from Jacksonville to State Camp. About $49,000.

Garbage Incinerator—New Orleans, La.—City plans. Cost, between $1,250,000 and $1,500,000. W. J. Hardee, city engr.

Incinerating Plant—Kansas City, Mo.—City rejected bids. Noted Aug. 16.

Dams—Vinita, Okla. — See "Industrial Works."

Tunnel—Denver, Colo. — Denver & Salt Lake R.R. will reorganize with $7,000,000 additional capital. Company plans 6 mi. tunnel through James Peak, 35 mi. west of Denver, shortening route to coast at least 200 mi. W. R. Freeman, 302 Boston Blk., and Chas. Boettcher, 507 Ideal Bldg., receivers.

Transmission Line—Robinette, Ore.—Cornucopia Mines Co., Cornucopia, plans 66,000 volt transmission line from Robinette to Halfway, about 12 mi. The company will also build sub-station at Halfway. About $30,000.

Transmission Line—Taylorsville, Cal.—Great Western Power Co. plans line from Veramont Sta. near Taylorsville to Walker copper mine, via Genesee mine, Genesee Valley. About 16 mi.

Breakwater—St. John, N. B.—City soon lets contract for extension to Negrotown Point breakwater. About $738,000.

BIDS DESIRED

Elimination Grade Crossing—Phila., Pa.—(Official)—Until Oct. 17, by Pennsylvania R.R., A. C. Shand, ch. engr., Broad St. Sta., Phila., abolishment grade crossing on Chestnut Hill Branch.

Dam—Anahuac, Tex.—Until Oct. 15, by Trinity River Irrigation Dist., building dam between Turtle Bay and Trinity Bay; also dredging channel from locks to connect Turtle Bay channel. J. Wooten, secy.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Station Finish—New York, N. Y.**—(Official)—Pub. Ser. Comn., 120 Bway., let contract completion of construction and station finish of Brooklyn and Manhattan loop and 4th Ave. subway parts of Bway.-4th Ave. Rapid Transit R.R., Boros. of Brooklyn and Manhattan, to D. C. Serber, 1123 Bway., $69,085. Noted Sept. 20.

★**Dam—Waterport, N. Y.**—Western New York Utilities Co. let contract water-power dam, on Orchard Creek, Clark Mills, to C. A. Ingersoll, West Centre St., Medina, $200,000.

★**Harbor Improvements — Jersey City, N. J.**—City Comn. let contract for improvement and development of water front along Hackensack River at foot Yale St., including bulkheads, dredging, etc., to Long-Broadhurst Contr. Co., Contrs. Causway, Hackensack. About $80,000. Noted Aug. 30.

★**Dock—Seattle, Wash.**—(Official)—King Co. Comrs. let contract, on Duwamish Waterway, to P. B. Church & Co., Arcade Bldg., $34,500. Noted Sept. 6.

★**Wharf Extension—Benicia, Cal.**—Benicia Shipbuilding Co. let contract to Duncanson & Harrelson, Chronicle Bldg., San Francisco, $10,000.

★**Pavilion—Manhattan Beach, Cal.**—City let contract, to W. M. Bell, 1046 W. 92nd St., Los Angeles, $19,693.

★**Docks, etc. — Ojibway, Ont.** — Canada Steel Corp., subsidiary of U. S. Steel Corp., let contract building docks, etc., including canal running through property for distance of 2500 ft., to be 200 ft. wide and 25 ft. deep, docks on banks of canal, also 1000 ft. dock on river front with marine slip and wharves, to Great Lakes Dredging Co. of Canada, Port Arthur. Cost between $25,000,000 and $30,000,000. Noted Aug. 30.

The Uni-Form Company, 10 High St., Boston, Mass., which manufactures the new system of steel forms for construction of reinforced concrete buildings, described on page 480 of the September 6th issue of "Engineering News-Record" in which system the whole form structure is of steel, being made up of channels and arch plates, coupled by bolts and spreaders, is inviting correspondence from agents in different parts of the country with a view to forming licensee connections.

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